CLAIMS

1. A cosmetic composition comprising a bioactive system that combines, firstly, a stable form, in aqueous solution, of ATP (adenosine triphosphate) with, optionally, an ATP precursor, for example Gp_4G (diguanosine tetraphosphate) or Ap_4A (diadenosine tetraphosphate) and, secondly, at least one biomimetic peptide comprising at most six amino acids, that mimics a cutaneous polypeptide or a cutaneous protein, or a biomolecule that is an agonist or antagonist with respect to said polypeptide or to said protein.

2. The composition as claimed in claim 1, characterized in that the stable form is a sodium salt of ATP, for example a disodium salt.

3. The composition as claimed in claim 1, characterized in that the biomimetic peptide is functionally active in the biosynthesis of a structural molecule of the skin, or of an enzyme present in the skin.

4. The composition as claimed in claim 1, characterized in that the biomimetic peptide is functionally active in the transfer of information in the skin, and is, for example, a biologically active fraction of a hormone or cytokine present in the skin.

5. The composition as claimed in claim 1, characterized in that the biomimetic peptide is chosen from the group consisting of histidine-β-alanyl, the peptide R-Gly-Gln-Pro-Arg, the peptide Tyr-Arg, the peptide R-Lys-Thr-Thr-Lys-Ser, N-acetyl-Tyr-Arg-R, the peptide Lys-Thr-Thr-Lys-Ser, the peptide Ala-Arg-His-Leu-Phe-Tyr (or alpha-MSH), and the peptide Gly-Gln-Asp-Pro-Val-Lys (or elafin); R being any amino acid.

6. The composition as claimed in claim 1, characterized in that the biomimetic peptide is a dipeptide.

7. The composition as claimed in claim 6, characterized in that the dipeptide corresponds to the formula Arg-R or His-R, in which R is any amino acid.

8. The composition as claimed in claim 6, characterized in that the dipeptide is in the form of an oligomer, of formula $(R\text{-}R)_n$, with $1 < n < 3$.

9. The composition as claimed in claim 8, characterized in that the dipeptide corresponds to the formula $(Arg\text{-}Lys)_n$, with $1 < n < 3$.

10. The composition as claimed in claim 1, characterized in that the biomimetic peptide is a tripeptide.

11. The composition as claimed in claim 10, characterized in that the tripeptide is Gly-His-Lys or Gly-Glu-Pro.

12. The composition as claimed in claim 1, characterized in that the biomimetic peptide is a tetrapeptide.

13. The composition as claimed in claim 12, characterized in that the tetrapeptide is Leu-Pro-Thr-Val or Lys-Thr-Ser-R or Gly-Glu-Pro-R; R being any amino acid.

14. The composition as claimed in claim 1, characterized in that the biomimetic peptide is a pentapeptide, for example Val-Ala-Lys-Leu-R; R being any amino acid.

15. The composition as claimed in claim 1, characterized in that the biomimetic peptide is a hexapeptide.

16. The composition as claimed in claim 15, characterized in that the biomimetic peptide is Ala-R_1-R_2-R_3-Phe-Try, with R_1, R_2 and R_3 each equal to any amino acid.

17. The composition as claimed in claim 1, characterized in that it comprises an amino acid, for example chosen from the group consisting of creatine, decarboxy carnosine and a glutamine, for example N-acetylglutamine.

18. The composition as claimed in claim 1, characterized in that it comprises a protein, for example chosen from the group consisting of superoxide dismutase, endonucleases, photolyase and cytokines from milk.

19. The composition as claimed in claim 1, characterized in that the bioactive system represents at most 10%, and preferably between 1% and 10^{-7}%, by weight of said composition.

20. The composition as claimed in claim 1, characterized in that it comprises at least one cosmetic active principle potentiated by the bioactive system.

21. The composition as claimed in claim 1, characterized in that it is in the form of a water-in-oil or oil-in-water emulsion, the bioactive system being included in the aqueous phase.

22. The composition as claimed in claim 1, characterized in that the bioactive system, the ATP and, optionally, the ATP precursor represent at most

10%, and preferably between 0.01% and 5%, by weight.